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Bichsel

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(54) **DRUM COOKER**

(76) Inventor: **Rudolf Bichsel**, Gyrisbergstrasse 124, CH-3400 Burgdorf (CH)

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(56) **References Cited**

U.S. PATENT DOCUMENTS

1,231,002	*	6/1917	Steere	134/132
1,290,396	*	1/1919	Steere	134/132
1,806,957	*	5/1931	Stocking	134/132
2,166,197	*	7/1939	Schaub	366/322
2,314,871	*	3/1943	DeBack	134/65
2,909,872	*	10/1959	Kearney et al.	134/132
3,135,668	*	6/1964	Wesson	134/132
3,484,360	*	12/1969	Sandrock	366/234
3,760,714	*	9/1973	Lortz	99/404
4.203,358		5/1980	Vogt .	
4,335,649		6/1982	Velasco, Jr. et al. .	
4,410,553	*	10/1983	McGinty	99/348
4,906,104	*	3/1990	Nishise et al.	366/322
5,329,842	*	7/1994	Zittel	99/348
5,429,041	*	7/1995	Zittel	99/470 X

FOREIGN PATENT DOCUMENTS

06062968 3/1994 (JP) .

OTHER PUBLICATIONS

XP-002108205-Rotary Cereal Cooker, 1999; 1-page.

* cited by examiner

Primary Examiner—Timothy F. Simone
(74) *Attorney, Agent, or Firm*—Harness, Dickey & Pierce, P.L.C.

(57) **ABSTRACT**

A drum cooker for cooking granular products comprises a vessel mounted to rotate about an axis. At least two nozzle groups are provided opening into said vessel. One of said nozzle groups is arranged in that it opens into a first area of said vessel covered by that granular product. A second nozzle group opens into a second area of said vessel not covered by said granular product. For enhancing the quality of the cooking process, a control means is provided for supplying said gaseous heat-carrying medium at any time to said nozzle group only that opens into that first area covered by said product.

6 Claims, 2 Drawing Sheets